

What is claimed is:

1 1. An AC type plasma display panel comprising:
2 a first substrate having first electrodes and a
3 dielectric layer covering said first electrodes;
4 a second substrate arranged in an opposed relation
5 to said first substrate to form a discharge space
6 therebetween;

7 discharge gas filled in said discharge space;

8 second electrodes formed on said second substrate,
9 each said second electrode having a plurality of openings
10 each having a size included by a rectangular area having
11 length of one of two sides thereof in a range from a value
12 equal to or larger than 5 μ m to a value smaller than 30 μ m;
13 and
14 a dielectric layer covering said second electrodes.

1 2. An AC type plasma display panel as claimed in claim 1,
2 wherein each said opening has a width in a range from a
3 value equal to or larger than 5 μ m to a value smaller than
4 30 μ m and has a strip-shaped configuration.

1 3. An AC type plasma display panel as claimed in claim 1,
2 wherein each said opening has a configuration including a
3 combination of a plurality of openings having different
4 configurations.

1 4. An AC type plasma display panel as claimed in claim 1,
2 wherein a length of either one of the two sides of each
3 said opening is in a range from 0.2 times to 1.8 times a
4 thickness of said dielectric layer.

1 5. An AC type plasma display panel as claimed in claim 2,
2 wherein a width of said strip-shaped opening is in a range
3 from 0.2 times to 1.8 times a thickness of said dielectric
4 layer.

1 6. An AC type plasma display panel as claimed in claim 3,
2 wherein a length of a shorter side of said opening is in a
3 range from 0.2 times to 1.8 times a thickness of said
4 dielectric layer.

1 7. An AC type plasma display panel as claimed in claim 1,
2 wherein each said second electrode includes a pair of
3 parallel electrodes to generate a surface-discharge, each
4 said parallel electrode pair is constructed by a first area
5 along a discharge gap formed between said pair of parallel
6 electrodes and a second area other than said first area,
7 said first area is 25 ~ 100 μ m wide and said openings are
8 formed in only said second area.

1 8. An AC type plasma display panel as claimed in claim 1,
2 wherein each said second electrode includes a pair of
3 parallel electrodes to generate a surface-discharge, each
4 said parallel electrode pair is constructed by a first area
5 along a discharge gap formed between said pair of parallel
6 electrodes and a second area other than said first area and
7 a ratio of a total area of said openings formed in said
8 first area to an area of said first area is smaller than a
9 ratio of a total area of said openings formed in said
10 second area to an area of said second area.

1 9. An AC type plasma display panel as claimed in claim 1,

2 wherein each said second electrode includes a pair of
3 parallel electrodes to generate a surface-discharge, each
4 said second electrode is constructed with a plurality of
5 strip-shaped areas and the smaller the ratio of a total
6 area of said openings formed in said strip-shaped area to
7 an area of said strip-shaped area is the closer the strip-
8 shaped area to the discharge gap.

1 10. An AC type plasma display panel as claimed in claim 7,
2 wherein said openings are arranged in said second area in a
3 row direction.

1 11. An AC type plasma display panel as claimed in claim 7,
2 wherein said openings are arranged in said second area in a
3 line direction.

1 12. An AC type plasma display panel as claimed in claim 1,
2 wherein each said second electrode includes a pair of
3 parallel electrodes to generate a surface-discharge, each
4 said parallel electrode pair is constructed by a first area
5 along a discharge gap and a second area other than said
6 first area, said openings are arranged in said first area
7 in a row direction and said openings are arranged in said
8 second area in a line direction.

1 13. An AC type plasma display panel as claimed in claim 1,
2 wherein a ratio of a total area of said openings formed in
3 said second area to a sum of an area of said second
4 electrode and the total area of said openings is in a range
5 from 10% to 70%.